

DECLARATION FOR PATENT APPLICATION

As a below nam d inv ntor, I hereby d clare that:

My resid nt, post offic address and citizenship are as stated below next \mathbf{t}^{\prime} my name.

I believe I am the original, first and sole inventor (if only on name i listed below) or an original, first and joint inventor (if plural names ar listed below) of the subject matter which is claimed and for which a paten is sought on the invention entitled <u>GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE</u>, the specification of which was filed on <u>March 24, 199</u> as application Serial No. 08/036,555

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendmen referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federa Regulations, 1.56(a).

Foreign Priority Applications

I hereby claim foreign priority benefits under Title 35, United States Code 119 of any foreign application(s) for patent or inventor's certificate lister below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed

91 07566.3 United Kingdom 10 April 1991 Yes (X) No () (Number) (Country) (Day/Month/Year Filed)

U.S. Priority Applications

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

07/965,173	October 23, 1992	Pending
(Applic. Serial No.)	(Filing Date)	(Status-patented/pending/abandoned)
07/940,389	September 3, 1992	Pending
(Applic. Serial No.)	(Filing Date)	(Status-patented/pending/abandoned)
<u>07/907,138</u> (Applic. Serial No.)	June 30, 1992	Pending
•	(Filing Date)	(Status-patented/pending/abandoned)
<u>07/863,703</u> (Applic. Serial No.)	April 3, 1992	Pending
(Applie. Selial No.)	(Filing Dat)	(Status-patented/pending/abandoned)

Power of Attorney

I hereby appoint the following attorn ys to prosecute this application as transact all business in the Pat nt and Trademark Offic conn cted ther with John E. Lynch, Reg. No. 20,940; Peter F. F 1f, Reg. No. 20,297; Alfred P. Hemingway, Jr., Reg. No. 26,736; Vincent M. Fazzari, Reg. No. 26,879; Halling R. Levie, Reg. No. 31,116; Charles A. Blank, Reg. No. 17,419; Norman I. Hanson, Reg. No. 30,946; Walter G. Weissenberger, Reg. No. 17,344; F. Bric Faller, Reg. No. 29,532; Andrew L. Tiajoloff, Reg. No. 31,575; John 1. Luther, Reg. No. 32,261; Christine H. Tsai, Reg. No. 34,266 and John 1. Bauer, Reg. No. 32,554, my attorneys with full power of substitution as revocation. Address all telephone calls to Christine H. Tsai, at (212) 686 9200. Address all correspondence to:

FELFE & LYNCH 805 Third Avenue New York, New York 10022

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to a true; and further that these statements were made with the knowledge the willful false statements and the like so made are punishable by fine comprisonment, or both, under Section 1001 of Title 18 of the United State Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

111

(1) Andrew Goodearl	H. Goodens	- 27 April 199
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<u>United Kingdom</u>		Citizenship
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(2) Paul Stroobant	P- Strobant.	April 6,1993
(2) Paul Stroobant Full Name/Second Inventor	P- Signature	April 6,1993 Date
		April 6,1993 Date
Full Name/Second Inventor	ouch End	April 6,1993 Date New Zealand Citizenship



(3) Luisa Minghetti		Signatur	21/4/93
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R sidence: <u>Via Stra</u>			
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		Ci	tizenship
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Post Ullice Address:	Via Stradello, 22 48012 Bagnacavallo		
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		Signature	13 4.00
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			tizenship
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			tizenship
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	<u> Arlington, Massacl</u>	nusetts 02174	.,. ,
	-		
(6) Mario Su Chen			
Full Name/Sixth Inve	ntor	Signature	Date
Name, Directi in the	••••	Dignature	Date
Residence: <u>65 Decat</u>	ur St.		
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			-
Post Office Address:			
•	Arlington Massaci	nusetts 02174	

10p 250.4-J	EL/CHT
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Signature	Date
	British

(7) Ian Hiles Full Name/Seventh Inventor Residence: 91 Riding House St.
London W1P 8BT, England Citizenship Post Office Address: <u>Courtauld Building, 91 Riding House St.</u>
<u>London W1P 8BT, England</u>

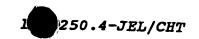
Power of Attorney

I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trad mark Office conn cted ther with: John E. Lynch, Reg. No. 20,940; Pet r F. Felf, Reg. No. 20,297; Alfr d H. Hemingway, Jr., Reg. No. 26,736; Vincent M. Fazzari, Reg. No. 26,879; Hallie R. Levie, Reg. No. 31,116; Charles A. Blank, Reg. No. 17,419; Norman D. Hanson, Reg. No. 30,946; Walter G. Weissenberger, Reg. No. 17,344; F. Brice Faller, Reg. No. 29,532; Andrew L. Tiajoloff, Reg. No. 31,575; John P. Luther, Reg. No. 32,261; Christine H. Tsai, Reg. No. 34,266 and John A. Bauer, Reg. No. 32,554, my attorneys with full power of substitution and revocation. Address all telephone calls to Christine H. Tsai, at (212) 688-9200. Address all correspondence to:

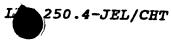
FELFE & LYNCH 805 Third Avenue New York, New York 10022

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<u>l) Andrew Goodeari</u> ull Name/Sole or Fir	st Inventor	Signature	Dat
sidence: <u>45 Blacket</u>	ts Wood Drive,	1100 CDV	British
<u>Chorleywood</u> <u>United Kin</u>	d, Hertfordshire, gdom	<u>WD3 5P1</u>	itizenship
st Office Address:	45 Blacketts Wo	ood Drive, Chorleywoo	od,
		WD3 5PY, United Kind	7
David Streetent			
	•	Signature	Date
ill Name/Second Inve	entor		
2) Paul Stroobant ull Name/Second Inve esidence: <u>52A Cecil</u> London No	entor	d Name of the Name	Date <u>Vew Zealand</u> Citizenship



rull Name/	Third Inve	ntor	Signature	Date
P sidona .	Win Ohma		,	Date
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				Citizenship
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		48012 Bagnacavallo	/D31 74-7	
			(KA) Italy	
(4) Micha	<u>el Waterfie</u>	. 9 . 2		
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	ar on riive	THEOE	Signature	Date
Residence:	Chantemer	lc, Speen Lane, Speen	_	
	Newbury.	Berkshire RG13 1RN	1,	
	United Ki	nadom		<u>British</u>
				Citizenship
Post Office	Address:	Chantemeric, Speen	Lane Speen	Northines
		Death - L. C. Barrier	mane, opeen,	Newbury
'5) Mart 1		Berkshire RG13 1RN	United Kingdo	om
(5) Mark A	Marchioni	Berkshire RG13 1RN	United Kingdo	Rome 5/1/2-
<u>(5) Mark N</u> Full Name/I		Berkshire RG13 1RN	United Kingdo	Rome 5/1/2
Full Name/F	<u>Marchioni</u> Tifth Inven	tor	United Kingdo	Rome 5/1/2-
Full Name/F	<u>Marchioni</u> Tifth Inven 24 Twin C	tor	Signature	Rome 5/1/2. Date
Full Name/F	<u>Marchioni</u> Tifth Inven 24 Twin C	tor	Signature	Date U.S.A.
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'ull Name/I 'esidence:	Marchioni Fifth Inven _24 Twin C _Arlington	tor ircle Drive Massachusetts 02174	Signature	Date U.S.A.
Tull Name/I Residence:	Marchioni Fifth Inven _24 Twin C _Arlington	tor ircle Drive , Massachusetts 02174	Signature	Date U.S.A.
Full Name/I Residence:	Marchioni Fifth Inven _24 Twin C _Arlington	tor ircle Drive Massachusetts 02174	Signature	Date U.S.A.
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Full Name/F Residence: Post Office	Marchioni Fifth Inven 24 Twin C Arlington Address:	tor ircle Drive Massachusetts 02174	Signature	Date U.S.A.
Tull Name/Fesidence: Sost Office 6) Mario	Marchioni Fifth Inven 24 Twin C Arlington Address: Su Chen	tor ircle Drive , Massachusetts 02174 24 Twin Circle Driv Arlington, Massachu	Signature Setts 02174	Date U.S.A.
Full Name/F Residence: Post Office Oost Office Mario Ull Name/S	Marchioni Fifth Inven 24 Twin C Arlington Address: Address: Su Chen ixth Invent	tor ircle Drive , Massachusetts 02174 24 Twin Circle Driv Arlington, Massachu	Signature	Date U.S.A.
Full Name/F Residence: Post Office Oost Office	Marchioni Fifth Inven 24 Twin C Arlington Address: Address: Su Chen ixth Invent	tor ircle Drive , Massachusetts 02174 24 Twin Circle Driv Arlington, Massachu	Signature Setts 02174	Date U.S.A.
Full Name/F Residence: Post Office Oull Name/S esidence:	Marchioni Fifth Inven 24 Twin C Arlington Address: Su Chen ixth Invent	tor ircle Drive , Massachusetts 02174 24 Twin Circle Driv Arlington, Massachu	Signature Setts 02174	Date U.S.A. Citizenship Date
Tull Name/Nesidence: Post Office 6) Mario ull Name/S esidence:	Marchioni Fifth Inven 24 Twin C Arlington Address: Su Chen ixth Invent	tor ircle Drive , Massachusetts 02174 24 Twin Circle Driv Arlington, Massachu	Signature Setts 02174	U.S.A. Citizenship Date U.S.A. Citizenship
Cull Name/Fresidence: Cost Office 6) Mario cull Name/Sresidence:	Marchioni Fifth Inven 24 Twin C Arlington Address: Su Chen ixth Invent Arlington Arlington	tor ircle Drive Massachusetts 02174 24 Twin Circle Driv Arlington, Massachu cor St. Massachusetts 02174	Signature Setts 02174	Date U.S.A. Citizenship Date
Full Name/F Residence: Post Office Full Name/S Residence:	Marchioni Fifth Inven 24 Twin C Arlington Address: Su Chen ixth Invent Arlington Arlington	tor ircle Drive , Massachusetts 02174 24 Twin Circle Driv Arlington, Massachu	Signature Signature Signature	U.S.A. Citizenship Date U.S.A. Citizenship



(7) Ian Hiles	
Full Name/Seventh Inventor	Signature Date
Residence: 91 Riding House St.	
London W1P 8BT, England	British
	Citizenship
Post Office Address: Courtaild Building	, 91 Riding House St.
London W1P 8BT, En	gland

	Andr w Goodearl et al. 08/036,555	
wil AlTequed:	March 24, 1993 FACTORS, THEIR PREPARATION AND USE	
Attorney's Docket No.:		

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(c)) - SMALL BUSINESS CONCERN

I hereby declare that I am

- () the part-owner of the small business concern identified below:
- (X) an official of the small business concern empowered to act on behalf f the concern identified below:

NAME OF CONCERN	Cambridge NeuroScience
	One Kendall Square
	Cambridge, Massachusetts 02139

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceeded 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indir ctly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

small business c	that rights under contract or law have been conveyed to and remain with concern identified above with regard to the invention, entitled	the
by inventor(s)	Andrew Goodearl et al.	

() the specification filed herewith

- (X) application Serial No. 036,555, filed March 24, 1993.
- () Patent No. , issued

If the rights held by the above identified small business concern are not exclusive, actindividual, concern or organization having rights to the invention is listed below* and not rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). *NOTE: Separate verified statements are required from each named person concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27).

Cont'd

described in

FELFE & LYNCH 805 Third Avenue New York, New York 10022 (212) 688-9200

DATE

ADDRESS OF PERSON SIGNING_

Verified Statement (Declaration) Claiming Small Entity Status (37 CFR 1.9(f) and 1.27(c)) - Small Busin as Concern

Page 2	
Applicant/Patentee: Andrew Goodearl et	
Serial/Patent No.: 08/036,555	
Filed/Issued: March 24, 1993	the state of the s
For: GLIAL MITOGENIC FACTORS, PREPARATI	ON AND USE
Attorney's Docket No.: LUD 250.4-JEL/CH	r
NAME	
ADDRESS	
() INDIVIDUAL () SMALL BUS	INESS CONCERN () NONPROFIT ORGANIZATION
NAME	
ADDRESS	
() INDIVIDUAL () SMALL BUS	INESS CONCERN () NONPROFIT ORGANIZATION
time of paying, the earliest of the issue f which status as a small entity is no longer	
I hereby declare that all statements made he statements made on information and belief a statements were made with the knowledge that are punishable by fine or imprisonment, or be states Code, and that such willful false.	erein of my own knowledge are true and that all re believed to be true; and further that these willful false statements and the like so made the under Section 1001 of Title 18 of the Uniterstatements may jeopardize the validity of the any patent to which this verified statement is
NAME OF PERSON SIGNING Grego:	ry B. Butler
TITLE OF PERSON OTHER THAN OWNER Direc	tor, Legal Affairs and Patont Course

FELFE & LYNCH 805 Third Avenue New York, New York 10022 (212) 688-9200

One Kendall Square

Cambridge, Massachusetts 02139

Director, Legal Affairs and Patent Counsel

Applicant/Patent e: Andrew Goodearl et al. Serial/Patent No.: U8/U36,555
Filed/Issued: March 24, 1993
For: GLIAL MITOGENIC FATORS, THEIR PREPARATION AND USE
FOL. OBJAN MIZOGANZO IMPONI STEERING TO THE TOTAL STEERING TOTAL STEERING TO THE TOTAL STEERING TO THE TOTAL STEERING TO THE TOTAL S
Attorney's Docket No.: LUD 250.4-JEL/CHT
VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION
I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:
NAME OF ORGANIZATION Ludwig Institute for Cancer Research
ADDRESS OF ORGANIZATION1345 Avenue of the Americas
New York, New York 10105
() UNIVERSITY OR OTHER INSTITUTE OF HIGHER EDUCATION (X) TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) and 501(c)(3)) () NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA (NAME OF STATE)
(CITATION OF STATUTE)
() WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 USC 501(a) and 501(c)(3)) IF LOCATED IN THE UNITED STATES OF AMERICA
() WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA (NAME OF STATE)
(CITATION OF STATE)
I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code with regard to the invention entitled GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE
by inventor(s) Andrew Goodearl et al. /

described in

- () the specification filed herewith
- (X) application Serial No. 036,555 , filed March 24, 1993
- () Patent No. , issued

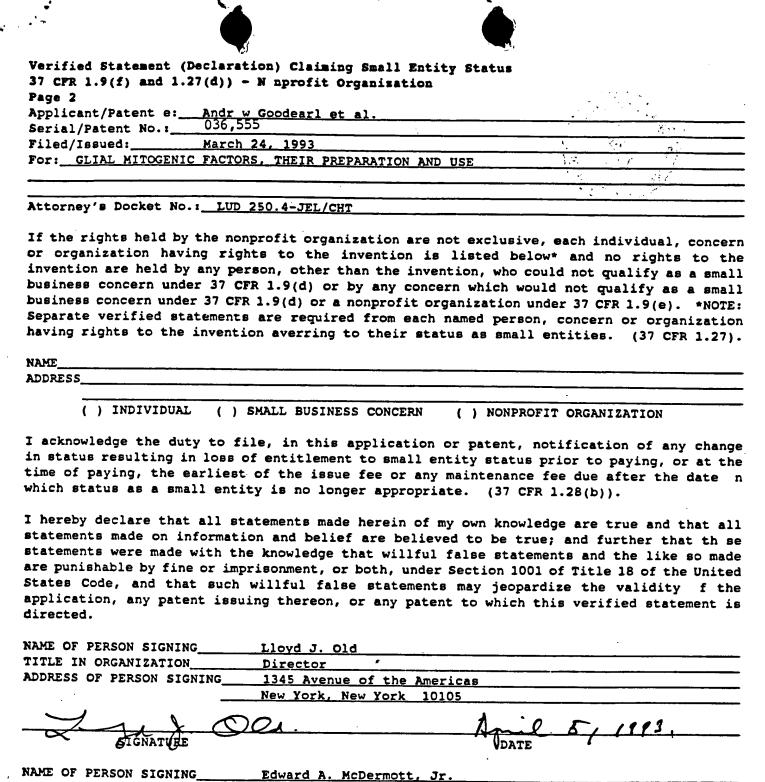
I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention.

Cont'd

FELFE & LYNCH 805 Third Avenue New York, New York 10022 (212) 688-9200

TITLE IN ORGANIZATION_

ADDRESS OF PERSON SIGNING

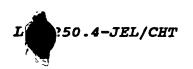


PELFE & LYNCH 805 Third Av nue N w York, New York 10022 (212) 688-9200

Secretary and General Counsel

1345 Avenue of the Americas New York, New York 10105





DECLARATION FOR PATENT APPLICATION

As a below nam d inventor, I hereby declare that:

My resident, post offic addr ss and citizenship are as stated below n xt to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <u>GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE</u>, the specification of which was filed on <u>March 24, 199</u> as application Serial No. 08/036,555

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91 07566.3 United Kingdom 10 April 1991 Yes (X) No () (Number) (Country) (Day/Month/Year Filed)

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07/863,703	April 3, 1992	Pending
(Applic. Serial No.)	(Filing Date)	(Status-patented/pending/abandoned)

ASSIGNMENT

Whereas the undersigned [hereinafter (collectively) "ASSIGNOR"] have invented certain new and us ful improvements in

GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE

for which an application for United States Letters Patent Serial No. 07/965,173 was filed on October 23, 1992.

Whereas

Ludwig Institute for Cancer Research 1345 Avenue of the Americas New York, New York 10105

a New York corporation (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title and interest in the same:

Now, therefore, in consideration of the sum of one dollar (\$1.00), the receipt whereof is hereby acknowledged, and other good and valuabl consideration, the said ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States.

Said ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE, as the assignee of the entire right, title, and interest in and to the same, for the sol us and for the use of its successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by said ASSIGNOR had this assignment and sale not been made.

Witness, the hand and seal of the ASSIGNOR on the date(s) indicated.

Date(s)

27 April 1993

April 6, 1993

April 21, 1993

Paul Stroobant

Luisa Minghetti

Michael Waterfield

April 22, 1993

Michael Waterfield

Luisa Hiles

FELFE & LYNCH, 805 Third Av nue, New York, New York 10022 (212) 688-9200.

Wher as the undersigned [hereinaft r (coll ctiv ly) "ASSIGNOR"] hav invented certain new and us ful improvements in

GLIAL MITOGENIC FACTORS, THEIR PREPARATION AND USE

for which an application for United States L tters Patent Serial No. 07/965,173 was filed on October 23, 1992.

Whereas

Cambridge NeuroScience One Kendall Square Cambridge, Massachusetts 02139

a Delaware corporation (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title and interest in the same:

Now, therefore, in consideration of the sum of one dollar (\$1.00), the receipt whereof is hereby acknowledged, and other good and valuable consideration, the said ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States.

Said ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE, as the assignee of the entire right, title, and interest in and to the same, for the sole use and for the use of its successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by said ASSIGNOR had this assignment and sale not been made.

Witness, the hand and seal of the ASSIGNOR on the date(s) indicated.

Date(s)

5/10/83 4/27/93

Signature(s)

FELFE & LYNCH, 805 Third Avenue, New York, New York 10022 (212) 688-9200.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Andrew Goodearl, et al.

Serial No. : Continuation of Serial No. 08/471,833

Filed : Concurrently herewith

For : GLIAL MITOGENIC FACTORS, THEIR

PREPARATION AND USE

October 22, 1996

Hon. Commissioner of Patent and Trademarks Washington, D.C. 20231

ASSOCIATE POWER OF ATTORNEY

Sir:

I hereby grant and/or confirm Associate Power of Attorney to Peter F. Felfe, Reg. No. 20,297; Alfred H. Hemingway, Jr., Reg. No. 26,736; Vincent M. Fazzari, Reg. No. 26,879; Norman D. Hanson, Reg. No. 30,946; F. Brice Faller, Reg. No. 29,532; Andrew L. Tiajoloff, Reg. No. 31,575; John A. Bauer, Reg. No. 32,554; Vineet Kohli, Reg. No. 37,003; Mary Ann Schofield, Reg. No. 36,669 and Madeline F. Baer, Reg. No. 36,437 to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

John E. Lynch Reg. No. 20,940

805 Third Avenue New York, N.Y. 10022 (212) 688-9200